**DECLARATION AND PETITION**

As below named inventors, We hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **PARTIALLY REAL AND PARTIALLY SIMULATED MODULAR INTERACTIVE ENVIRONMENT** the specification of which was filed as U.S. Patent Application Serial No. 10/647,932 on August 26, 2003.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. § 1.56(a).

We hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application of which priority is claimed.

PRIOR FOREIGN APPLICATION(S)

Number	Country	Filing Date	Priority Claimed?
NONE			

PRIOR UNITED STATES PROVISIONAL APPLICATION

We hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date	Status
60/406,281	August 27, 2002	Provisional

PRIOR UNITED STATES APPLICATION(S)

We hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, we acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status
NONE		

We hereby declare: All statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true. These statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, and this declaration and petition.

Full name of first inventor: Jackson Jarrell Pair

Inventor's signature

Date

Residence: 14006 Palawan Way #202, Marina Del Rey, CA 90292

Citizenship:

Post Office Address

Full name of second inventor: Ulrich Neumann

Inventor's signature

Date

Residence:

Manhattan Beach, CA

Citizenship:

United States of America

Post Office Address

526 21st Street
Manhattan Beach, CA 90266

Full name of third inventor: William R. Swartout

Inventor's signature

Date

Residence: 7105 FERNHILL DR.

Citizenship:

Post Office Address

Full name of first inventor: Richard D. Lindheim

Inventor's signature

Date

Residence: 166 No. CARSON RD, ~~LA~~

Citizenship:

Post Office Address

Wherefore we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, and this declaration and petition.

Full name of first inventor: Jackson Jarrell Pair

Inventor's signature _____ Date _____

Residence: _____

Citizenship: _____

Post Office Address _____

Full name of second inventor: Ulrich Neumann

Inventor's signature Ulrich Neumann Date 12/15/03

Residence: Manhattan Beach, CA

Citizenship: United States of America

Post Office Address 526 21st Street
Manhattan Beach, CA 90266

Full name of third inventor: William R. Swartout

Inventor's signature _____ Date _____

Residence: _____

Citizenship: _____

Post Office Address _____

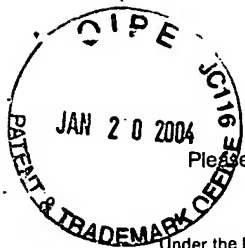
Full name of first inventor: Richard D. Lindheim

Inventor's signature _____ Date _____

Residence: _____

Citizenship: _____

Post Office Address _____



Please type a plus sign (+) inside this box → +

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/647,932
Filing Date	August 26, 2003
First Named Inventor	PAIR, Jackson Jarrell et al.
Title	PARTIALLY REAL AND PARTIALLY SIMULATED MODULAR INTERACTIVE ENV
Group Art Unit	Not known
Examiner Name	Not known
Attorney Docket Number	028080-0109

I hereby appoint:

☒ Practitioners at Customer Number

33401 →

Place Customer
Number Bar Code
Label here

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

→

Place Customer
Number Bar Code
Label here

OR

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Dennis J. Dougherty, Senior Vice-President of Administration, USC
Signature	<i>Dennis J. Dougherty</i>
Date	11/14, 2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Jackson Jarrell PAIR et al.Application No./Patent No.: 10/647,932 Filed/Issue Date: August 26, 2003Entitled: PARTIALLY REAL AND PARTIALLY SIMULATED MODULAR INTERACTIVE ENVIRONMENTUniversity of Southern California, a Nonprofit corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

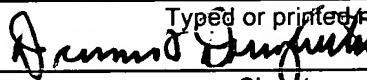
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

11/14/03

Date

Dennis J. Dougherty

Typed or printed name



Signature

Senior Vice-President of Administration, USC

Title

ASSIGNMENT

(Joint Inventors)

WHEREAS, We, Jackson Jarrell Pair, Ulrich Neumann, William R. Swartout and Richard D. Lindheim ("ASSIGNORS") have invented "Partially Real and Partially Simulated Modular Interactive Environment" ("Invention") for which We have filed an application for a patent ("Application") in the United States, Application Serial No. 10/647,932, filed August 26, 2003;

WHEREAS, We are the joint inventors of the Invention;

WHEREAS, University of Southern California, ("ASSIGNEE") is a corporation organized and existing under the laws of California, having a place of business at Office of Technology Licensing, 3716 South Hope Street, Suite 313, Los Angeles, CA 90007-4344.

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to the Invention and Application and to all patents based on the Application;

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which ASSIGNORS acknowledge, ASSIGNORS have and hereby do assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to:

1. The Invention;
2. The Application;
3. All applications based on or claiming priority from the Application, including all divisionals and continuations ("Application Family");
4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents"); and
5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNORS agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNORS also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNORS authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and in any and all foreign countries in which applications for patents can be made or patents obtained.

Dated: 8 JAN, 2004 *JRP*


Name: Jackson Jarrell Pair

Address: 14006 Palawan Way #202
Marina Del Rey, CA 90292

STATE OF California)
 COUNTY OF Los Angeles) ss.

On Jan. 08, 2003 before KAREN HOPKINS personally appeared Jackson Jarrell Pair, ☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Karen Hopkins
 Notary Public

(SEAL)



Dated: _____, 2003

Name: Ulrich Neumann

Address: _____

STATE OF California)
 COUNTY OF _____) ss.

On _____, 2003 before _____ personally appeared Ulrich Neumann, ☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Dated: 12/19, 2003

(SEAL)

William R. Swartout
 Name: William R. Swartout
 Address: 7105 FERNHILL DR.
MALIBU, CA 90265

STATE OF California)
 COUNTY OF Los Angeles) ss.

On Dec. 19, 2003 before KAREN HOPKINS personally appeared William Swartout, ☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Karen Hopkins
 Notary Public

(SEAL)



Dated: Dec 16, 2003

Richard D. Lindheim
 Name: Richard D. Lindheim
 Address: 166 No. CARRON RD
POVERTY HILL, CA 90241

STATE OF California)
 COUNTY OF Los Angeles) ss.

On Dec. 16, 2003 before KAREN HOPKINS personally appeared Richard D. Lindheim, ☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Karen Hopkins
 Notary Public

(SEAL)



ASSIGNMENT

(Joint Inventors)

WHEREAS, We, Jackson Jarrell Pair, Ulrich Neumann, William R. Swartout and Richard D. Lindheim ("ASSIGNORS") have invented "Partially Real and Partially Simulated Modular Interactive Environment" ("Invention") for which We have filed an application for a patent ("Application") in the United States, Application Serial No. 10/647,932, filed August 26, 2003;

WHEREAS, We are the joint inventors of the Invention;

WHEREAS, University of Southern California, ("ASSIGNEE") is a corporation organized and existing under the laws of California, having a place of business at Office of Technology Licensing, 3716 South Hope Street, Suite 313, Los Angeles, CA 90007-4344.

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to the Invention and Application and to all patents based on the Application;

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which ASSIGNORS acknowledge, ASSIGNORS have and hereby do assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to:

1. The Invention;
2. The Application;
3. All applications based on or claiming priority from the Application, including all divisionals and continuations ("Application Family");
4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents"); and
5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNORS agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNORS also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNORS authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and in any and all foreign countries in which applications for patents can be made or patents obtained.

Dated: _____, 2003

Name: Jackson Jarrell Pair

Address: _____
_____STATE OF California)
) ss.
COUNTY OF _____)

On _____, 2003 before _____ personally appeared Jackson Jarrell Pair, ☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Notary PublicDated: December 16, 2003

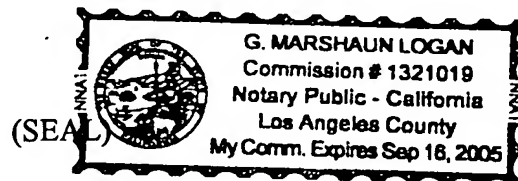
Ulrich Neumann
Name: Ulrich Neumann
Address: 526 21st Street
Manhattan Beach CA 90266

STATE OF California)
) ss.
COUNTY OF Los Angeles)

On December 16, 2003 before G. Marshaun Logan personally appeared Ulrich Neumann, ☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

G. Marshaun Logan
Notary Public



Dated: _____, 2003

Name: William R. Swartout
Address: _____

STATE OF California)
) ss.
COUNTY OF _____)

On _____, 2003 before _____ personally appeared William Swartout, ☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Notary Public

Dated: _____, 2003

Name: Richard D. Lindheim

Address:

STATE OF California)
) ss.
COUNTY OF _____)

On _____, 2003 before _____ personally appeared Richard D. Lindheim, ☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Notary Public